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## AMENDMENTS TO SPECIFICATION

### In the Specification:

On page 1, line 3 please insert the following:

#### **--CROSS-REFERENCE TO RELATED APPLICATIONS**

This application is a National Phase Application of PCT International Application No. PCT/IL2003/001024, International Filing Date December 3, 2003, entitled "PROCESS OF AND APPARATUS FOR THREE-DIMENSIONAL PRINTING", which in turn claims priority from United States Patent Application, 60/430,362, filed December 3, 2002, which are both incorporated by reference herein in their entirety.--

On page 12, line 1 please replace paragraph 059 with the following paragraph:

-- [059] The printing system and system components according to embodiments of the present invention may be similar to and use or be based on aspects of embodiments described in United States Patent Numbers 6,259,962, issued March 1, 1999, titled "APPARATUS AND METHOD FOR THREE DIMENSIONAL MODEL PRINTING"; and 6,569,373, issued May 27, 2003, titled "COMPOSITIONS AND METHODS FOR USE IN THREE DIMENSIONAL MODEL PRINTING", as well as United States Patent Applications Numbers ~~09/412,618, filed October 6, 1999~~ 6,658,314, issued December 2, 2003, titled "SYSTEM AND METHOD FOR THREE DIMENSIONAL MODEL PRINTING"; ~~10/424,732, filed April 29, 2003, United States Application Publication Numbers 2003/0207959, published November 6, 2003~~, titled "COMPOSITIONS AND METHODS FOR USE IN THREE DIMENSIONAL MODEL PRINTING"; ~~10/101,089, filed March 20, 2002, 2002/0171177, published November 21, 2002~~, titled "SYSTEM AND METHOD FOR PRINTING AND SUPPORTING THREE DIMENSIONAL OBJECTS"; Patent Application Number 09/484,272, filed January 18, 2000, titled "SYSTEM AND METHOD FOR THREE DIMENSIONAL MODE MODEL PRINTING"; and/or 10/336,032, filed January 3, 2003, Application Publication Number 2003/0151167, published August 14, 2003, titled "DEVICE, SYSTEM AND METHOD FOR ACCURATE PRINTING OF THREE DIMENSIONAL OBJECTS", all assigned to the common assignee of the present invention and fully

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incorporated herein by reference. However, the printer system according to some embodiments of the present invention may also have other configurations and/or other methods of operation. For example, the printer system according to the present invention may include more than one printing head, and/or more than one material dispenser, positioner, curer, imager, illuminator, leveler, sensor, cartridge, cartridge valve, etc. In further embodiments, layer-by-layer deposition need not be used, and other curing or solidifying methods may be used. The printing head may include, for example, an ink jet head or another suitable material deposit system or dispenser --

On page 14, line 11 please replace paragraph 065 with the following paragraph:

--[065] The building materials used in the process of construction of 3-D objects according to some embodiments of the present invention are described in US Patent 6,658,314 Application 09/412,618 and further in US Patent Application No. 09/803,108 6,569,373, both assigned to the current assignee, and both of which are incorporated herein by reference. Briefly, in one embodiment there are two main types of building materials used: "modeling material" or "model material", being the first building material substantially as described in the aforementioned patent applications assigned to the current assignee, and "support material", being the second building material substantially as described in the aforementioned patent applications assigned to the current assignee. Of course, other materials, other numbers of materials and other combinations of materials may be used.--

On page 14, line 21 please replace paragraph 066 with the following paragraph:

--[66] As described in US Patent Application Publication No. 2002/0171177 40/401,089 assigned to the current assignee, and incorporated herein by reference, a relatively solid support structure may be formed using modeling material, for example in the form of narrow vertical pillars joined by horizontal membranes, around, between, and/or within which support material may be dispensed. The support structure, when cured, may provide a semi-solid support construction for the 3-D object being built. Support material may be dispensed alone and may remain uncured for various purposes, for example, to form layers of 'release'

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between the solidified object and its semi-solid support constructions for easy separation of the two types of construction after printing is complete.--

On page 18, line 10 please replace paragraph 078 with the following paragraph:

-- [078] According to some embodiments of the present invention, material supply unit(s) 152 may supply building materials to printing apparatus 140. Building materials may include any suitable kind of object building material, such as, for example, photopolymers, wax, powders, plastics, metals, and may include modeling material, support material and/or release material, or any alternative material types or combinations of material types. In some embodiments of the present invention, the building materials used for construction of the 3D object are in a liquid form. Such materials may be similar to those described in embodiments of US Patent Number 6,569,373 and ~~US Patent Application Numbers 09/412,618~~ 6,658,314 and US Patent Application Publication Number 2003/0207959 ~~Numbers 10/424,732~~, all of the same Assignee, and incorporated herein by reference. In an exemplary embodiment of the present invention, the modeling and/or support materials used are photopolymers that may contain material curable by electro-magnetic radiation and/or electron beams etc. The materials may come in different forms, textures, colors, etc. Other suitable materials or combinations of materials may be used.--

On page 18, line 24 please replace paragraph 079 with the following paragraph:

-- [079] The 3-D object printing process as described in US Patent ~~No. Numbers~~ 6,259,962, 6,658,314 and 6,569,373 and US Patent ~~Applications 09/412,618, 09/803,108, and 10/101,089~~ Application Publication 2002/0171177, all assigned to the current assignee and incorporated herein by reference, may include a method of printing a 3-D object on a layer-by-layer basis. For example, printing an object may include dispensing modeling and/or support materials on a layer by layer basis according to a predetermined configuration, from a plurality of nozzles on the apparatus' printing head. The building material(s) may be dispensed at a given temperature in a fluid state to form a layer, and after dispensing each layer may optionally be cured by, for example, a source of electromagnetic radiation. The

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building material(s) may solidify as a result of curing and subsequent cooling.--

On page 31, line 15 please replace paragraph 0117 with the following paragraph:

-- [0117] The printing of three-dimensional objects may require different types of support constructions. These may be, for example, 'support constructions' and/or "release constructions" etc., as depicted in embodiments in U.S. Patents 6,658,314 and 6,569,373 ~~US Applications 09/412,618 and 09/803,108~~ both of which are assigned to the current assignee and incorporated herein by reference, and as described hereinabove. "Support constructions" may consist predominantly of support material that may or may not be combined with modeling material in varying ratios and combinations according to the desired strength, elasticity and so on of the support construction. Support constructions may be printed, for example, underneath and/or adjacent to the modeling construction(s), according to the purpose which the support construction(s) are to serve. "Release constructions" as described above may consist predominantly of support material, optionally combined with a relatively small proportion of modeling material, and may be deposited between the modeling construction and its adjacent support construction(s). Curing may solidify release constructions to provide, for example, a relatively soft layer of material. Such a layer may be, for example, viscous liquid, paste-like, gel-like or semi-solid to varying extents, as required, in order to ease the separation or 'release' of the support construction from the object after printing. Support and release constructions other than those described in these applications may be used.--

On page 32, line 16 please replace paragraph 0119 with the following paragraph:

-- [0119] US Patent Application Publication No. ~~10/401,089~~ 2002/0171177 assigned to the current assignee, and incorporated herein by reference, describes, inter alia, embodiments including various possible types of support constructions. For example, a relatively solid support structure may be formed using a skeleton, grid, or framework of modeling material or modeling construction, for example in the form of vertical pillars, bases, columns or other suitable structures, optionally joined by horizontal membranes, also of modeling material or modeling construction, around, between, and/or within which support material or support

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construction may be dispensed, and which structure when cured may provide a semi-solid support construction for the 3-D object being built. The thickness or width of the pillars and/or membranes and their placement and/or distances between them, may depend on the size and shape of the object being built. Other suitable support structures may be used.--

On page 41, line 5 please replace paragraph 0142 with the following paragraph:

-- [0142] Imperfections in 3-D printed objects may occur for example, when one or more nozzles 147 on printing head 145 are wholly or partially blocked, defective or non-functional. According to some embodiments of the present invention, if these problematic nozzles remain non-functional even after purging or other treatment, they may be defined in the apparatus controller 105 as "missing nozzles", which may be compensated for during the printing process. An apparatus and method of detecting such "missing nozzles" is described and exemplified in PCT Application Number PCT/IL03/00746, filed September 11, 2003, published as WO 2004/024447 titled "APPARATUS AND METHOD FOR CALIBRATION IN THREE-DIMENSIONAL MODEL PRINTING", of the same Assignees, which is incorporated herein by reference in its entirety.